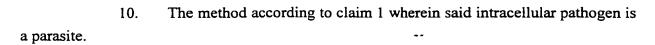
<u>Claims</u>

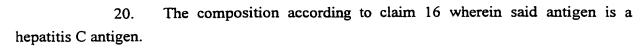
We Claim:

- animals, comprising:

 A method for treating intracellular infections within warm-blooded
- (a) administering to a warm-blooded animal a vector construct which directs the expression of at least one immunogenic portion of an antigen derived from an intracellular pathogen; and
- (b) administering to said warm-blooded animal a protein which comprises said immunogenic portion of said antigen, such that an immune response is generated.
- 2. The method according to claim 1, further comprising the step of administering an immunomodulatory cofactor.
- The method according to claim 1 wherein said protein is administered prior to administration of said vector construct.
- 4. The method according to claim 1 wherein said intracellular pathogen is a virus, and said antigen a viral antigen.
- from a virus selected from the group-consisting of hepatitis, feline immunodeficiency virus, and HIV.
 - 6. The method according to claim 5 wherein said antigen is a hepatitis B antigen.
 - 7. The method according to claim 6 wherein said hepatitis B antigen is selected from the group consisting of HBeAg, HBcAg and HBsAg.
 - 8. The method according to claim 5 wherein said antigen is a hepatitis C antigen.
 - 9. The method according to claim 8 wherein said hepatitis C antigen is selected from the group consisting of core antigen C, E1, E2/NS1, NS2, NS3, NS4 and NS5.



- The method according to claim 1 wherein said vector construct is carried by a recombinant retrovirus.
 - 12. The method according to claim 1 wherein said vector construct is carried by a recombinant virus selected from the group consisting of alphaviruses, adenoassociated virus and parvovirus.
 - 13. The method according to claim 1 wherein said vector construct is a nucleic acid expression vector, or a enkaryotic layered vector initiation system.
 - 14. A composition, comprising a vector construct which directs the expression of at least one immunogenic portion of an antigen derived from an intracellular pathogen, a protein which comprises said immunogenic portion of said antigen, and a pharmaceutically acceptable carrier or diluent.
 - 15. The composition according to claim 14, further comprising an immunomodulatory cofactor.
 - 16. The composition according to claim 14 wherein said intracellular pathogen is a virus, and said antigen a viral antigen.
 - obtained from a virus selected from the group consisting of hepatitis, feline immunodeficiency virus, and HIV.
 - 18. The composition according to claim 16 wherein said antigen is a hepatitis B antigen.
 - 19. The composition according to claim 18 wherein said hepatitis B antigen is selected from the group consisting of HBeAg, HBcAg and HBsAg.



antigen is selected from the group consisting of core antigen C, E1, E2/NS1, NS2, NS3, NS4 and NS5.

22. The composition according to claim 14 wherein said intracellular pathogen is a parasite.

Sub B7 23. The composition according to claim 1 wherein said vector construct is carried by a recombinant retrovirus.

add B8>